

Global Phase Change Thermal Storage Microcapsules Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phase Change Thermal Storage Microcapsules market size is expected to reach \$ 485 million by 2032, rising at a market growth of 5.0% CAGR during the forecast period (2026-2032).

Phase Change Thermal Storage Microcapsules are functional thermal management materials in which phase change materials are used as the core and protected by polymeric or inorganic shell structures. They are commonly produced through in situ polymerization, interfacial polymerization, emulsion polymerization, spray drying or sol gel processes, encapsulating paraffin, fatty acids, alcohols or salt hydrates into micron scale particles. The products are typically supplied as powders, emulsions, slurries, dispersions or functional masterbatches. Key specifications include phase change temperature, latent heat capacity, particle size distribution, encapsulation ratio, thermal stability, washing durability and leakage resistance. Their main function is to absorb or release latent heat during temperature fluctuations, enabling passive temperature regulation, thermal buffering, cold storage and heat storage. Major applications include thermoregulating textiles, building energy saving materials, cold chain packaging, electronics thermal management, battery thermal management and automotive interiors. In 2025, the global microencapsulated phase change materials industry had an estimated average gross margin of around 30% to 45%, with an average market price of approximately US\$8 to US\$30 per kilogram.

Phase Change Thermal Storage Microcapsules represent a functional material category that combines latent heat storage with microencapsulation technology. Their value lies not only in the phase change core material itself, but also in converting leakage prone and difficult to process thermal storage media into dispersible, coatable and compoundable material forms. The upstream supply chain mainly includes paraffin, fatty

acids, salt hydrates, polymer monomers, inorganic shell materials and dispersion additives. The midstream focuses on encapsulation processes, particle size control, phase change temperature design and formulation stability. Downstream demand is distributed across textiles, building materials, cold chain packaging, electronics and new energy thermal management.

The competitive landscape is characterized by strong technology accumulation in Europe and North America, together with faster capacity formation and application development in China. International suppliers generally have advantages in encapsulation know how, long term stability, customer certification and branded application systems, while Chinese suppliers are becoming more active in textile finishing, cold chain materials, electronics cooling and customized thermal management solutions. Recent industry consolidation and technology platform expansion indicate that microencapsulated PCMs are moving beyond traditional thermoregulating textile applications into broader functional thermal management systems.

Policy direction and end market demand are creating a supportive environment for long term growth. Energy efficient buildings, low carbon cold chain logistics, electric vehicle thermal safety, electronics heat dissipation and functional textile upgrading are all pushing the industry toward higher latent heat, lower leakage, formaldehyde free systems, better washing durability, improved cycle stability and multifunctional composite materials. Future growth will be driven by penetration across multiple downstream applications rather than by a single mass market. The industry is expected to remain a relatively small but high value segment with strong formulation barriers and a high degree of customization.

This report studies the global Phase Change Thermal Storage Microcapsules production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phase Change Thermal Storage Microcapsules and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Phase Change Thermal Storage Microcapsules that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phase Change Thermal Storage Microcapsules total production and demand, 2021-2032, (kg)

Global Phase Change Thermal Storage Microcapsules total production value, 2021-2032, (USD Million)

Global Phase Change Thermal Storage Microcapsules production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Phase Change Thermal Storage Microcapsules consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Phase Change Thermal Storage Microcapsules domestic production, consumption, key domestic manufacturers and share

Global Phase Change Thermal Storage Microcapsules production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Phase Change Thermal Storage Microcapsules production by Core Material, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Phase Change Thermal Storage Microcapsules production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Phase Change Thermal Storage Microcapsules market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Alexium International Group Ltd / Microtek Laboratories, Inc., RUBITHERM Technologies GmbH, Croda International Plc, Encapsys, LLC, MikroCaps d.o.o., Insilico Co., Ltd., Shanghai Ruisen New Energy Technology Co., Ltd., Wuhan Advanced Materials entity / Wuhan Institute of Advanced Technology, Hangzhou Feijie Technology Co., Ltd., Hainan Coinno Intelligent Technology Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Phase Change Thermal Storage Microcapsules market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Core Material, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Phase Change Thermal Storage Microcapsules Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phase Change Thermal Storage Microcapsules Market, Segmentation by Core Material:

Paraffin-based

Fatty Acid

Salt Hydrate-based

Bio-based

Others

Global Phase Change Thermal Storage Microcapsules Market, Segmentation by Shell Material:

Melamine-Formaldehyde (MF)

Urea-Formaldehyde (UF)

PMMA

Silica

Others

Global Phase Change Thermal Storage Microcapsules Market, Segmentation by Particle Size:

50 μ m

Others

Global Phase Change Thermal Storage Microcapsules Market, Segmentation by Phase Change Temperature:

Low Temperature (40°C)

Global Phase Change Thermal Storage Microcapsules Market, Segmentation by Application:

Smart Textiles & Apparel

Building Energy Conservation

Cold Chain & Thermal Packaging

Electronics & Battery Thermal Management

Automotive Interior

Others

Companies Profiled:

Alexium International Group Ltd / Microtek Laboratories, Inc.

RUBITHERM Technologies GmbH

Croda International Plc

Encapsys, LLC

MikroCaps d.o.o.

Insilico Co., Ltd.

Shanghai Ruisen New Energy Technology Co., Ltd.

Wuhan Advanced Materials entity / Wuhan Institute of Advanced Technology

Hangzhou Feijie Technology Co., Ltd.

Hainan Coinno Intelligent Technology Co., Ltd.

Passive Edge Technology Co., Ltd.

Andores New Energy Co., Ltd.

Shenzhen Hangmei New Material Technology Co., Ltd.

PCM Products Ltd

Key Questions Answered:

1. How big is the global Phase Change Thermal Storage Microcapsules market?
2. What is the demand of the global Phase Change Thermal Storage Microcapsules market?
3. What is the year over year growth of the global Phase Change Thermal Storage Microcapsules market?
4. What is the production and production value of the global Phase Change Thermal Storage Microcapsules market?
5. Who are the key producers in the global Phase Change Thermal Storage Microcapsules market?

6. What are the growth factors driving the market demand?

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